Building Serv. Eng. Res. Technol. **11**(4) 165 (1990) Printed in Great Britain.

Contents list

Volume 11, 1990

Refrigeration and heat pump designs: Optimising for meat-processing plants	F J Bowater	1
Novel room temperature control	B J Peat	9
Thermal conductivity of porous materials: II Theoretical treatment of radiative heat transfer	A Simpson and A D Stuckes	13
Turbulent flow in a duct: Measurement by a tracer gas technique	S B Riffat and S F Lee	21
Thermal responses of sprinkler heads	W K Chow and P L Ho	37
Building heat loss calculations: Choice of internal temperature and of heat exchange coefficient h_i	J Uyttenbroeck	49
Hot water services for a modern hospital ward unit	D K Corless	57
Lift traffic analysis: Formulae for the general case	R D Peters	65
Internal long-wave radiation exchange in buildings: Comparison of calculation methods: I Review of algorithms	P Stefanizzi, A Wilson and A Pinney	81
Internal long-wave radiation exchange in buildings: Comparison of calculation methods: II Testing of algorithms	P Stefanizzi, A Wilson and A Pinney	87
Empirical and theoretical optimum start algorithms	N Murdoch, J M Penman and G J Levermore	97
Thermal comfort studies and applications for Dhaka	Z N Ahmed, A T Howarth and J N Zunde	105
Fluid flow and heat transfer in pipework systems: II Design example	K C W Ip, B Day and D Richardson	109
Building control systems: Fuzzy rule-based approach to performance assessment	A L Dexter and D W Trewhella	115
Multiple liquid chillers: Intelligent control	A K H Wong and R W James	125
Room heat needs in relation to comfort temperature: Simplified calculation methods	M G Davies	129
Solar heated and daylit offices: Design study	T Muneer	141
Solar radiation model for Europe	T Muneer	153

Review Paper

Building services engineering — The invisible architecture	D J Croome	27

Technical Notes

Mean radiant temperature in the *CIBSE Guide*	M G Davies	69
Psychrometry: Use of standard charts for non-standard air pressures	I J G Berry	73
Solar radiation: Further evaluation of the Muneer model	T Muneer	77

Science and Engineering Research Council research reports 33, 79

Correspondence 35, 104

© 1990 The Chartered Institution of Building Services Engineers